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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,619	11/05/2003	Hisaki Kurashina	117469	4867	
25944 · 7590 05/16/2005			EXAM	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			WEISS, HOWARD		
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2814		
			DATE MAILED: 05/16/2009	DATE MAILED: 05/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)			A					
Examiner Howard Welss 2914  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edetablished is like may be available under the provisione of 37 CPR 1.136(a). In no event, however, may a raply be limitely fined  If the period for rely provided date is less than thing (30 year, a rely which he standary minimum of thiny (30) shay will be considered timely.  If the period for rely provided date than there control (30 year, a rely which he standary minimum of thiny (30) shay will be considered timely.  If the period for rely provided date than there control (30 year, a rely which he standary minimum of thiny (30) shay will be considered timely.  If the period for rely specified above, the maintimum statistury period will apply said will supply said wil			Application No.	Applicant(s)				
Howard Weiss   2814			10/700,619	KURASHINA ET AL.				
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Period for Reply  A SHOATENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  after SIX (6) MONTHS from the mailing date of this communication. 135(6). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. 135(6) and the statutory maintained to this provided and state of the sta								
THE MAILING DATE OF THIS COMMUNICATION.  Estrations of time may be available under the provides of 32 CFR 1.136(a). In no event, however, may a raply be firrely filed after SIX (b) MONTRS from the mailing date of this communication.  It NO period for reply is specified above, the maximum statistury previous play within the statistory previous for reply to specified or reply is specified above, the maximum statistury previous play and will seaper SIX (b) MONTRS that the mailing date of this communication.  Fallure is reply within the set or celeraded period for reply yill, by datable, cause the application to become ABANDONED (35 U.s.C. § 133).  Any reply received by the Office will whan three mornis above, the maximum statistury previous play and will seaper SIX (b) MONTRS to the mailing date of this communication, even if furnely (flex), may reduce any versions plates term adjustment. See 97 CFR 1.704(b).  Status  1) MR Responsive to communication(s) filed on 08 March 2005.  2a) This action is FINAL.  2b) This action is FINAL.  2c) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-17 Ne are pending in the application.  4a) Of the above claim(s) 15-17 Ne are withdrawn from consideration.  5) Claim(s) 1-14 Ne are predicted.  7) Claim(s) 1-14 Ne are predicted.  7) Claim(s) 1-14 Ne are subject to restriction and/or election requirement.  Applicantion Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 24 September 2004 Is/Jarc: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d).  11) The ordary of the drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  12	Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
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Application/Control Number: 10/700,619

Art Unit: 2814

Attorney's Docket Number: 117469

Filing Date: 11/5/03

Continuing Data: none

Claimed Foreign Priority Date: 11/26/02, 9/12/03 (JPX)

Applicant(s): Kurashina et al. (Takahara, Kawata)

**Examiner: Howard Weiss** 

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#### Election/Restrictions

1. Applicant's election of Group I (Claims 1 to 14) in the response filed 3/8/05, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Merely stating the claims are "sufficiently related" without specifically and distinctly addressing all points of the restriction does not constitute a valid reply.

2. Claims 15 to 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant is requested to cancel the non-elected claims as part of a complete response to this office action. Cancellation of the non-elected claims would not preclude the later filing of a divisional application on the non-elected invention (please see 35 USC 120 and121).

### Claim Objections

- 3. Claim 1 recites the limitation "pixel potential capacitor electrodes" in Line 11. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 1 recites the limitation "constant potential capacitor electrodes" in Line 14. There is insufficient antecedent basis for this limitation in the claim.
- 5. Claim 7 describes "fourth junction electrodes" without establishing third junction electrodes on an antecedent basis.

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## Specification

6. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 1 to 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murade (PCT/JP99/06642), Ohtani et al. (U.S. Patent No. 6,490,014) and Shimizu et al. (U.S. Patent No. 6,160,297).

Murade shows most aspects of the instant invention (e.g. Figures 9 to 12) including:

- > data lines 6a extending in a first direction and scan lines 3a extending in a second direction perpendicular to said first direction
- pixel electrodes 9a and TFTs 30
- storage capacitors 70 with first junction electrodes 8b connected to said pixel and second junction electrodes 15 connected to a constant potential 11b

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> capacitor line 3b

> said lines include a nitride film 81 and AI/TiN structure

Murade dies not show the capacitor disposed above the data line and third and fourth junction electrodes. Ohtani et al. teach (e.g. Figures 3) to disposed a capacitor line 23 above a data line 18 to increase the aperture ratio of the pixel (Column 2 Lines 40 to 42). It would have been obvious to a person of ordinary skill in the art at the time of invention to disposed a capacitor line above a data line as taught by Ohtani et al. in the device of Murade to increase the aperture ratio of the pixel.

Shimizu et al. teach (e.g. Figure 10 to form third and fourth junction electrode 6 in order to make interconnections at low resistance (Column 12 Lines 28 to 30). It would have been obvious to a person of ordinary skill in the art at the time of invention to form third and fourth junction electrode as taught by Shimizu et al. in the device of Murade in order to make interconnections at low resistance.

#### Conclusion

- 9. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (703) 872-9306. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Weiss at (571) 272-1720 and between the hours of 7:00 AM to 3:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via <a href="mailto:Howard.Weiss@uspto.gov">Howard.Weiss@uspto.gov</a>. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.

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# 11. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/59, 72; 349/39	5/9/05
Other Documentation: PLUS Analysis Report	5/4/05
Electronic Database(s): EAST, IEL, STNEasy	5/6/05

HW/hw 9 May 2005 Howard Weiss Primary Examiner Art Unit 2814



